NOTICE OF DRAFTSPERSON'S
PATENT DRAWING REVIEW

The drawing(s) filed on 1-20-99

A. ___ approved by the Draftsperson under 37 CFR 1.84 or 1.152.

B. ___ objected to by the Draftsperson under 37 CFR 1.84 or 1.152 as indicated below. The Examiner will require
submission of new, corrected drawings when necessary. Corrected drawing must be submitted according to the instructions on the back of this notice.

1. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings: Black ink. Color.	8. ARRANGEMENT OF VIEWS. 37 CFR 1.84
___ Not black solid lines. Fig(s)	Words do not appear on a horizontal, left to right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s)
Fig(s) __32__	
___ Pencil and non black ink not permitted. Fig(s)	9. SCALE. 37 CFR 1.84(k)
2. PHOTOGRAPHS. 37 CFR 1.84(b)	___ Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction.
___ Half-tone sets is required. Fig(s)	Fig(s)
___ Photographs not properly mounted 37 CFR 1.84(b).	10. CHARACTER OF LINES, NUMBERS & LETTERS. 37 CFR 1.84(l)
___ Poor quality (half-tone). Fig(s)	✓ Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (poor line quality).
3. TYPE OF PAPER. 37 CFR 1.84(e)	Fig(s) 34A-34D, 39, 45B, 50A - 60, 61
___ Paper not flexible, strong, white, smooth, non shiny, and durable.	11. SHADING. 37 CFR 1.84(m)
___ Erasures, alterations, overwritings, interlineations, folds, copy machine marks not accepted. Fig(s)	✓ Solid black areas pale. Fig(s) 7, 11A - 12
	___ Solid black shading not permitted. Fig(s)
___ Mylar, velum paper is not acceptable (too thin). Fig(s)	___ Shade lines, pale, rough and blurred. Fig(s)
4. SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes:	12. NUMBERS, LETTERS & REFERENCE CHARACTERS. 37 CFR 1.84(p)
21.0 cm by 29.7 cm (DIN size A4)	✓ Numbers and reference characters not plain and legible. Figs 13 - 19, 20B - 26, 27B, 29, 31A, 34A - 47 Ve2
21.6 cm by 27.9 cm (8 1/2 x 11 inches)	✓ Figure legends (Fig(s)) Figs 34A - 34D, 39, 45B
✓ All drawing sheets not the same size.	___ Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1)
← FIG. 32	Fig(s)
___ Drawings sheets not an acceptable size. Fig(s)	___ English alphabet not used. 37 CFR 1.84(p)(2)
5. MARGINS. 37 CFR 1.84(g): Acceptable margins:	Fig(s)
	___ Numbers, letters and reference characters must be at least .32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3)
Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm	Fig(s)
SIZE A4	13. LEAD LINES. 37 CFR 1.84(q)
Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm	___ Lead lines cross each other. Fig(s)
SIZE 8 1/2 x 11	___ Lead lines missing. Fig(s)
Margins not acceptable. Fig(s) 1E, 11I, 13 - 16, 19, 23, 30c, 41A - 41T	14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(t)
✓ Top (T)	42, 45B, 46J, 48, 55A - 55c, 57B - 58B, 65B Sheets not numbered consecutively, and in Arabic numerals beginning with number 1. Sheet(s)
✓ Left (L) ✓ Right (R)	15. NUMBERING OF VIEWS. 37 CFR 1.84(u)
___ Bottom (B)	___ Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s)
6. VIEWS. 37 CFR 1.84(h)	16. CORRECTIONS. 37 CFR 1.84(w)
REMINDER: Specification may require revision to correspond to drawing changes.	___ Corrections not made from PTO-948.
Partial views. 37 CFR 1.84(h)(2)	Fig(s)
___ Brackets needed to show figure as one entity. Fig(s)	17. DESIGN DRAWINGS. 37 CFR 1.152
___ Views not labeled separately or properly. Fig(s)	___ Surface shading shown not appropriate. Fig(s)
___ Enlarged view not labeled separately or properly. Fig(s)	___ Solid black shading not used for color contrast. Fig(s)
7. SECTIONAL VIEWS. 37 CFR 1.84(h)(3)	

COMMENTS

REVIEWER ___CHASE___ DATE 3-16-02 TELEPHONE NO. 703-305-6436

ATTACHMENT TO PAPER NO. **23**